L Number	Hits	Search Text	DB	Time stamp
2	24	dual adj (fir or adaptive adj filter)	USPAT;	2004/05/31 13:32
	•		ЕРО; ЛРО	
3	1015	long adj (tail or echo)	USPAT;	2004/05/31 10:08
			ЕРО; ЛРО	
5	36525	echo	USPAT;	2004/05/31 10:09
			ЕРО; ЈРО	
6	6	(dual adj (fir or adaptive adj filter) ) and echo	USPAT;	2004/05/31 10:12
			ЕРО; ЛРО	
7	5	((dual adj (fir or adaptive adj filter) ) and echo) and reduc\$3	USPAT;	2004/05/31 10:22
			ЕРО; ЛРО	
10 .	183	long adj echo	USPAT;	2004/05/31 10:22
_			ЕРО; ЛРО	
8	7	long adj tail adj echo	USPAT;	2004/05/31 10:29
	10	(11250564511   114060 44011   11406005411   1150440 40611   115040 40611	ЕРО; ЛРО	
12	17	("3787645"   "4862449"   "4868874"   "5014263"   "5084865"	USPAT	2004/05/31 10:23
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İ		"5631900"   "5649010"   "5663955"   "5664011"   "5675612"		
13	1607	"5708474"   "5790440").PN.	LICDAT.	2004/05/21 10:25
13	1687	long near2 tail or long near2 echo near2 tail	USPAT; EPO; JPO	2004/05/31 10:35
15	19940	(fir or adaptive adj filter)	USPAT;	2004/05/31 10:31
• •	17770	(in or adaptive adj litter)	EPO; JPO	2004/03/31 10.31
16	10	(long near2 tail or long near2 echo near2 tail) same ((fir or adaptive adj	USPAT;	2004/05/31 10:31
	••	filter))	ЕРО; ЛРО	2004/05/51 10.51
17	2079	long near2 tail\$2 or long near2 echo near2 tail\$2	USPAT:	2004/05/31 13:33
		,	ЕРО; ЛРО	200 1103751 13.33
19	582	dual adj filter\$2	USPAT;	2004/05/31 10:36
			ЕРО; ЛО	
21	34	((fir or adaptive adj filter)) and (long near2 tail\$2 or long near2 echo	USPAT;	2004/05/31 10:58
		near2 tail\$2)	ЕРО; ЛРО	
23	3202	interpolat\$2 with filter	USPAT;	2004/05/31 11:10
.	_		ЕРО; ЈРО	
24	5	(long near2 tail\$2 or long near2 echo near2 tail\$2) and (interpolat\$2	USPAT;	2004/05/31 11:09
25	220	with filter)	ЕРО; ЛРО	
23	229	interpolat\$2 adj filter	USPAT;	2004/05/31 11:11
28	279109	emulat\$3 or duplicat\$3 or copy	EPO, JPO	2004/05/31 12:47
20	2//10/	cindidates of dupitedates of copy	USPAT; EPO; JPO	2004/03/31 12.47
29	66	(interpolat\$2 adj filter) and (emulat\$3 or duplicat\$3 or copy)	USPAT;	2004/05/31 11:12
		( and ( and a different of a product of copy)	ЕРО; ЛО	2004/03/31 11.12
30	107083	hybrid	USPAT;	2004/05/31 11:13
			ЕРО; ЈРО	20003.31 11.13
31	4	((interpolat\$2 adj filter) and (emulat\$3 or duplicat\$3 or copy)) and	USPAT;	2004/05/31 11:13
		hybrid	ЕРО, ЈРО	
32	137392	emulat\$3 or duplicat\$3	USPAT;	2004/05/31 12:54
			ЕРО; ЈРО	
33	4	(dual adj (fir or adaptive adj filter) ) and (emulat\$3 or duplicat\$3)	USPAT;	2004/05/31 12:51
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35	155	"6487295").PN.	LICDATE	2004/05/21 12 55
J.J	155	(emulat\$3 or duplicat\$3) and (long near2 tail\$2 or long near2 echo near2 tail\$2)	USPAT;	2004/05/31 12:51
36	67	hybrid and ((emulat\$3 or duplicat\$3) and (long near2 tail\$2 or long	ЕРО; ЛРО	2004/05/21 12:52
50	07	near2 echo near2 tail\$2))	USPAT; EPO; JPO	2004/05/31 12:52
37	1	((fir or adaptive adj filter)) and (hybrid and ((emulat\$3 or duplicat\$3)	USPAT;	2004/05/31 12:52
- '	1	and (long near2 tail\$2 or long near2 echo near2 tail\$2)))	EPO; JPO	2007/03/31 12.32
38	23716	emulat\$3	USPAT;	2004/05/31 12:55
			ЕРО; ЛРО	200-705/51 12.55
39	354767	coefficient		2004/05/31 12:55
40	203	emulat\$3 same coefficient	USPAT;	2004/05/31 13:31
			EPO; JPO	1
			USPAT; EPO; JPO USPAT;	

41	50	hybrid and (emulat\$3 same coefficient)	USPAT;	2004/05/31 13:27
43	10	sohe and (huhaid and (amulat@2 agus aga@aisut))	ЕРО; ЛРО	2004/05/21 12:27
43	18	echo and (hybrid and (emulat\$3 same coefficient))	USPAT; EPO; JPO	2004/05/31 13:27
45	20	(long near2 tail\$2 or long near2 echo near2 tail\$2) and emulat\$3	USPAT;	2004/05/31 13:13
77	20	(long near 2 tarists of long near 2 cento near 2 tarists) and emulates	EPO; JPO	2004/03/31 13.13
46	3	coefficient and ((long near2 tail\$2 or long near2 echo near2 tail\$2) and	USPAT;	2004/05/31 13:13
"		emulat\$3)	ЕРО; ЛРО	2004/05/51 15:15
51	l o	(long near2 tail\$2 or long near2 echo near2 tail\$2) and (dual adj	USPAT;	2004/05/31 13:33
		filter\$2)	ЕРО; ЛРО	
52	1	5933797.pn.	USPAT,	2004/05/31 13:33
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53	16	("5001661"   "5151937"   "5175702"   "5297071"   "5327459"	USPAT	2004/05/31 13:33
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		"5526377"   "5581494"   "5631957"   "5652903"   "5721782"		
l		"5745396").PN.		
54	2083	long near2 tail\$2 or long near2 echo near2 tail\$2.ab.ti.	USPAT;	2004/05/31 13:42
			ЕРО; ЛРО	
55	34	((fir or adaptive adj filter)) and (long near2 tail\$2 or long near2 echo	USPAT;	2004/05/31 13:38
50	4070	near2 tail\$2.ab.ti.)	ЕРО; ЛРО	2004/05/21 12 20
56	4878	long adj delay	USPAT;	2004/05/31 13:38
57	1	(dual adj (fir or adaptive adj filter) ) and (long adj delay)	EPO; JPO USPAT;	2004/05/31 13:38
"	1	(dual adj (iii of adaptive adj filter) ) and (folig adj delay)	EPO; JPO	2004/03/31 13.36
68	2969	line adj card\$	USPAT;	2004/05/31 16:12
			ЕРО; ЛРО	200 1/03/31 10:12
69	83330	pots	USPAT;	2004/05/31 15:50
		•	ЕРО; ЛРО	
70	261	sdsl	USPAT;	2004/05/31 15:50
İ			ЕРО; ЛРО	
71	2368	adsl	USPAT;	2004/05/31 15:50
			ЕРО; ЛРО	
72	234	sdsl and adsl	USPAT;	2004/05/31 15:50
			ЕРО; ЈРО	
73	152	pots and (sdsl and adsl)	USPAT;	2004/05/31 15:50
7.			EPO; JPO	
74	52	(line adj card\$) and (pots and (sdsl and adsl))	USPAT;	2004/05/31 15:50
75	,	(line adi corde) with mate with add with - 3-1	ЕРО; ЛРО	2004/05/21 16:22
'3	1	(line adj card\$) with pots with adsl with sdsl	USPAT;	2004/05/31 16:12
76	75	line adj card\$ same pots same \$dsl	EPO; JPO	2004/05/21 16:12
′	''	inic adjeatad same pois same dasi	USPAT; EPO; JPO	2004/05/31 16:13
77	800340	multiple	USPAT;	2004/05/31 16:13
``	000510	- Marapa	EPO; JPO	2007/03/31 10.13
78	44	(line adj card\$ same pots same \$dsl) and multiple	USPAT,	2004/05/31 16:24
-		, J f	EPO; JPO	230 1.03,31 10.24
79	· 14	(line adj card\$ same pots same \$dsl) and adsl and sdsl	USPAT;	2004/05/31 16:25
		, , , , , , , , , , , , , , , , , , ,	ЕРО; ЈРО	

## **Patent Assignment Abstract of Title**

**Total Assignments: 2** 

**Application #:** 09939439 **Filing Dt:** 08/24/2001 Patent #: NONE **Issue Dt:** 

PCT #: NONE Publication #: NONE Pub Dt:

Inventors: Robin Levonas, Hai Liu Title: Hybrid echo canceller

Assignment: 1

Reel/Frame: 012121/0060 Received. 09/04/2001 Recorded: Mailed: Pages:

08/24/2001 11/02/2001

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: LEVONAS, ROBIN Exec Dt: 08/24/2001

> LIU, HAI Exec Dt: 08/24/2001

Assignee: GLOBESPAN, INC.

100 SCHULZ DRIVE

**RED BANK, NEW JERSEY 07701** 

Correspondent: THOMAS, KAYDEN, HORSTEMEYER, ET AL

ROBERT A. BLAHA

100 GALLERIA PARKWAY, SUITE 1750

ATLANTA, GA 30339-5948

Assignment: 2

**Reel/Frame:** 012540/0103 Received: 02/14/2002 Recorded: Mailed: Pages: 01/30/2002 04/02/2002

Conveyance: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignor: GLOBESPAN, INC. Exec Dt: 12/14/2001

Assignee: GLOBESPAN VIRATA, INC.

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RED BANK, NEW JERSEY 07701

Correspondent: THOMAS, KAYDEN, HORSTEMEYER & RISLEY

L.L.P.

DANIEL R. MCCLURE

100 GALLERIA PARKWAY, SUITE 1750

ATLANTA, GA 30339-5948

Search Results as of: 5/31/2004 1:03:59 P.M.

If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 703-308-9723 Web interface last modified: Oct. 5, 2002

L Number	Hits	Search Text	DB	Time stamp
2	24	dual adj (fir or adaptive adj filter)	USPAT;	2004/05/31 13:32
-	2-7	dual adj (in oi adaptive adj inter)	EPO; JPO	2004/03/31 13:32
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		1 · · · · · · · · · · · · · · · · · · ·	ЕРО; ЈРО	
5	36525	echo	USPAT;	2004/05/31 10:09
			ЕРО; ЛРО	
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İ	ĺ		ЕРО; ЈРО	
7	5	((dual adj (fir or adaptive adj filter) ) and echo) and reduc\$3	USPAT;	2004/05/31 10:22
			ЕРО; ЛРО	
10	183	long adj echo	USPAT;	2004/05/31 10:22
			ЕРО; ЈРО	
8	7	long adj tail adj ećho	USPAT;	2004/05/31 10:29
12	17	(11270764511   114062444011   11406007411   11501 426211   11500 406511	ЕРО; ЛРО	2004/05/21 10:22
12	''	("3787645"   "4862449"   "4868874"   "5014263"   "5084865"     "5274705"   "5311503"   "5521908"   "5526347"   "5559881"	USPAT	2004/05/31 10:23
ļ.		"5631900"   "5649010"   "5663955"   "5664011"   "5675612"		
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			EPO; JPO	200 1103/31 10:33
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			ЕРО; ЛРО	
16	10	(long near2 tail or long near2 echo near2 tail) same ((fir or adaptive adj	USPAT;	2004/05/31 10:31
	ĺ	filter))	ЕРО, ЛРО	
17	2079	long near2 tail\$2 or long near2 echo near2 tail\$2	USPAT;	2004/05/31 13:33
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19	582	dual adj filter\$2	USPAT;	2004/05/31 10:36
,			ЕРО; ЈРО	2004/05/01 10 50
21	34	((fir or adaptive adj filter)) and (long near2 tail\$2 or long near2 echo near2 tail\$2)	USPAT;	2004/05/31 10:58
23	3202	interpolat\$2 with filter	EPO; JPO USPAT;	2004/05/31 11:10
	3202	merpolatigz with inter	ЕРО; ЛРО	2004/05/51 11.10
24	5	(long near2 tail\$2 or long near2 echo near2 tail\$2) and (interpolat\$2	USPAT;	2004/05/31 11:09
		with filter)	ЕРО; ЛРО	
25	229	interpolat\$2 adj filter	USPAT;	2004/05/31 11:11
		·	ЕРО; ЛРО	
28	279109	emulat\$3 or duplicat\$3 or copy	USPAT;	2004/05/31 12:47
			ЕРО; ЛРО	
29	66	(interpolat\$2 adj filter) and (emulat\$3 or duplicat\$3 or copy)	USPAT;	2004/05/31 11:12
30	107083	hybrid	ЕРО; ЛРО	2004/05/21 11:12
30	101083	inyonu	USPAT; EPO; JPO	2004/05/31 11:13
31	4	((interpolat\$2 adj filter) and (emulat\$3 or duplicat\$3 or copy)) and	USPAT;	2004/05/31 11:13
"		hybrid	ЕРО; ЛРО	2004/03/31 11:13
32	137392	emulat\$3 or duplicat\$3	USPAT;	2004/05/31 12:54
			ЕРО, ЛРО	
33	4	(dual adj (fir or adaptive adj filter) ) and (emulat\$3 or duplicat\$3)	USPAT;	2004/05/31 12:51
ļ <u>.</u> .			ЕРО; ЈРО	
34	6	("5690321"   "5740256"   "5754665"   "5917921"   "6084973"	USPAT	2004/05/31 12:50
25	156	"6487295").PN.	TIOD AT	2004/05/21 12 51
35	155	(emulat\$3 or duplicat\$3) and (long near2 tail\$2 or long near2 echo near2 tail\$2)	USPAT;	2004/05/31 12:51
36	67	hybrid and ((emulat\$3 or duplicat\$3) and (long near2 tail\$2 or long	EPO; JPO USPAT;	2004/05/21 12:52
30	07	near2 echo near2 tail\$2))	EPO; JPO	2004/05/31 12:52
37	1	((fir or adaptive adj filter)) and (hybrid and ((emulat\$3 or duplicat\$3)	USPAT;	2004/05/31 12:52
	•	and (long near2 tail\$2 or long near2 echo near2 tail\$2)))	EPO; JPO	
38	23716	emulat\$3	USPAT;	2004/05/31 12:55
			ЕРО; ЈРО	
39	354767	coefficient	USPAT;	2004/05/31 12:55
			ЕРО; ЈРО	
40	203	emulat\$3 same coefficient	USPAT;	2004/05/31 13:31
			ЕРО; ЈРО	<u> </u>

41	50.	hybrid and (emulat\$3 same coefficient)	USPAT;	2004/05/31 13:27
			ЕРО, ЛРО	
43	18	echo and (hybrid and (emulat\$3 same coefficient))	USPAT;	2004/05/31 13:27
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45	20	(long near2 tail\$2 or long near2 echo near2 tail\$2) and emulat\$3	USPAT;	2004/05/31 13:13
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		emulat\$3)	ЕРО; ЛРО	
51	0	(long near2 tail\$2 or long near2 echo near2 tail\$2) and (dual adj	USPAT;	2004/05/31 13:33
		filter\$2)	ЕРО; ЛРО	
52	1	5933797.pn.	USPAT;	2004/05/31 13:33
	1		ЕРО; ЈРО	
53	16	(	USPAT	2004/05/31 13:33
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		"5526377"   "5581494"   "5631957"   "5652903"   "5721782"		
54	2083	"5745396").PN.	I IODAT.	2004/05/21 12:42
34	2083	long near2 tail\$2 or long near2 echo near2 tail\$2.ab.ti.	USPAT;	2004/05/31 13:42
55	34	((fir or adaptive edi filter) ) and (lang macr) tail\$2 or lang macr) caha	ЕРО; ЛО	2004/05/31 13:38
J.J	34	((fir or adaptive adj filter)) and (long near2 tail\$2 or long near2 echo near2 tail\$2.ab.ti.)	USPAT; EPO; JPO	2004/03/31 13:38
56	4878	long adj delay	USPAT:	2004/05/31 13:38
50	4676	l tong adj detay	ЕРО; ЛРО	2004/03/31 13.38
57	1	(dual adj (fir or adaptive adj filter) ) and (long adj delay)	USPAT;	2004/05/31 13:38
51	1	(dual adj (in or adaptive adj inter) and (long adj delay)	EPO; JPO	2004/03/31 13.38